BEGIN PROJECT SLM 2.30 Feb. 8. W

LOCATION MAP



PORTION TO BE IMPROVED

DESIGN DESIGNATION

CURRENT A.D.T. (2012) DESIGN YEAR A.D.T. (2034)

DESIGN SPEED LEGAL SPEED

FUNCTIONAL CLASSIFICATION

= 9,950

= 9,950 = 35 MPH/25 MPH = 35 MPH/25 MPH

= URBAN PRINCIPAL ARTERIAL

FULTON ROAD NW PAVING PROJECT

CITY OF CANTON, OHIO

INDEX OF SHEETS:

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PROJECT DESCRIPTION

THE PROJECT SHALL CONSIST OF MILLING AND RESURFACING THE ROADWAY, INSTALLATION OF PAVEMENT MARKINGS AND INSTALLATION OF ADA COMPLIANT CURB RAMPS.

PROJECT EARTH DISTURBED AREA: < 1.0 ACRES ESTIMATED CONTRACTOR EARTH DISTRUBED AREA: < 1.0 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 0 ACRES

2013 SPECIFICATIONS

SUPPLEMENTAL

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION AND THE CITY OF CANTON, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

CITY OF CANTON, OHIO

MAYOR

WILLIAM J. HEALY

DIRECTOR OF PUBLIC SERVICE
WILLIAM BARTOS

DIRECTOR OF PUBLIC SAFETY
ANDREA PERRY

WARD COUNCIL MEMBERS
GREG HAWK, WARD 1
THOMAS E. WEST, WARD 2
JOHN MARIOL II, WARD 7

CITY CIVIL ENGINEER
DANIEL J. MOEGLIN, P.E.

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:

OFFICE OF THE CITY ENGINEER CANTON, OHIO

DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2436 30th STREET N.E. 44705 (330)489-3381

		STANDARD	CONSTRUCTION DRAWINGS	SPECIFICATIONS
	ODOT	ODOT	CANTON	ODOT
		MT-95.31 7/18/14	STD. DWG. 12	800 4/17/09
	BP-5.1 7/19/13	MT-95.32 7/18/14	STD. DWG. 23	816 1/20/12
	BP-7.1 7/18/14	MT-97.10 7/18/14	STD. DWG. 29	907 1/20/12
	<u> </u>	MT-97.11 7/18/14		
	TC-71.10 1/17/14	MT-99.20 7/19/13	STD. DWG. 31	
	10 1110 1717	MT-101.90 7/18/14	STD. DWG. 33	CANTON
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DATE _____ CITY ENGINEER, CITY OF CANTON

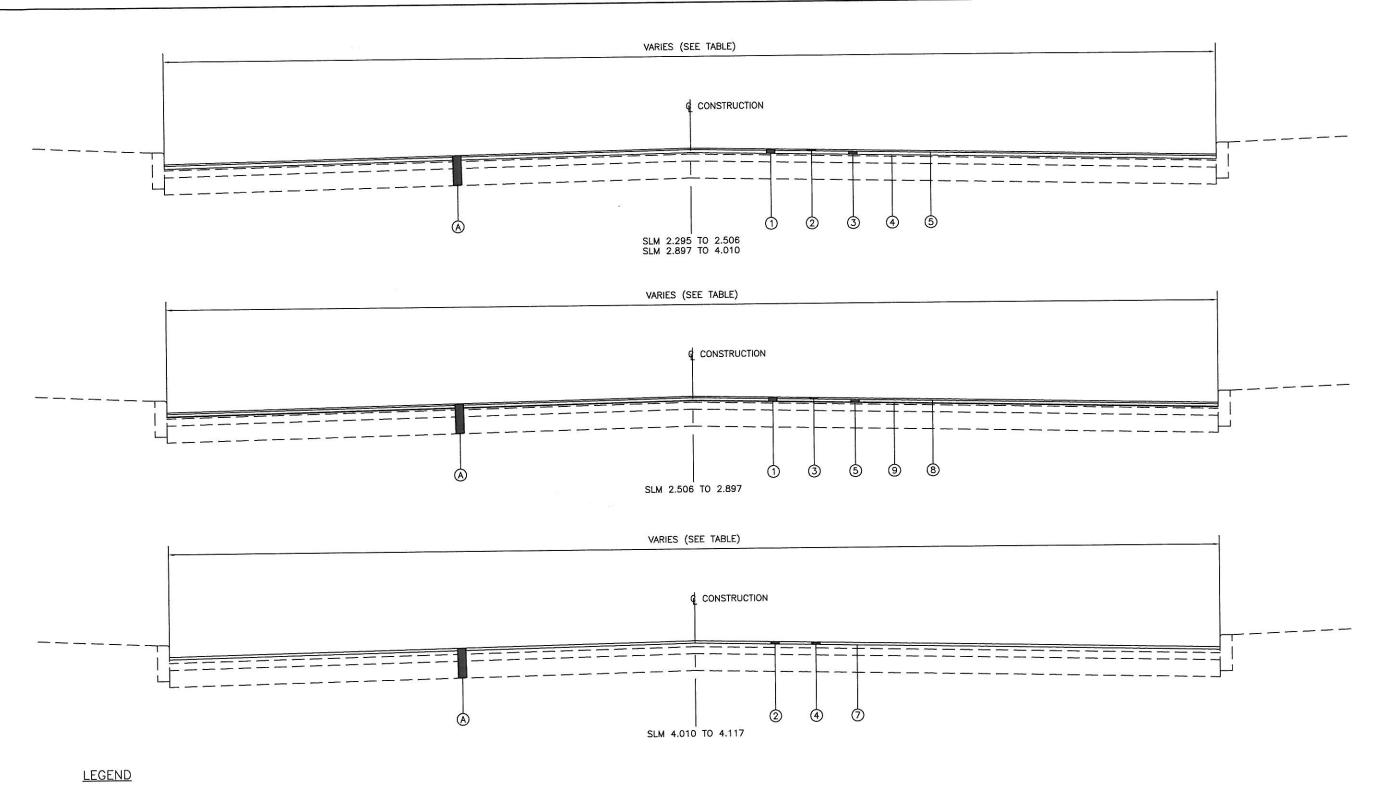
FFICE OF THE CITY ENGINEER CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2435 50th STREET ME. 44705 (350)469-3361

FULTON ROAD NW PAVING PROJECT

PID NO. 99470

ILB4

RAILROAD INVOLVEMENT AKRON METRO



- 1 254 2 1/4" PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- 2 254 1 1/4" PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
- 3 424 3/4" FINE GRADED POLYMER ASPHALT CONCRETE, TYPE A
- 424 1 1/4" FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B
- (5) 448 1 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22
- ⑥ 448 1 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22
- 7 407 TACK COAT, 702.13
- 8 407 TACK COAT FOR INTERMEDIATE COURSE
- 9 SPEC FIBER REINFORCED BITUMINOUS MEMBRANE SURFACE TREATMENT, TYPE B
- A EXISTING COMPOSITE PAVEMENT (BRICK OR CONCRETE UNDER ASPHALT)

STA	TION	WIDTH
FROM	TO	(FEET)
2.295	2.506	54
2.506	2.825	46
2.825	3.409	37
3.409	3.789	37
3.789	3.884	36
3.884	4.010	30
4.010	4.117	36

SECTION PAVING PROJECT TYPICAL RD. NW

PROJECT SPECIFICATIONS/REQUIREMENTS:

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS/REQUIREMENTS OF THE CITY OF CANTON AND THE 2008 EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT AS HEREIN AMENDED. IN THE CASE OF A CONFLICT BETWEEN THE CITY OF CANTON AND THE OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS/REQUIREMENTS, THE CITY OF CANTON REQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

THE CONTRACTOR SHALL COMPLY WITH THE CITY OF CANTON SUPPLEMENTAL SPECIFICATION 01-00 PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS.

ADMINISTRATIVE REQUIREMENTS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COMPLYING WITH ALL THE ADMINISTRATIVE DUTIES HEREIN CONTAINED.

THE CONTRACTOR SHALL DESIGNATE TO THE CITY AN EMPLOYEE RESPONSIBLE FOR CORRESPONDENCE, NOTIFICATIONS, AND SUBMITTALS PERTINENT TO THE PROJECT.

PRECONSTRUCTION MEETING:

A PRECONSTRUCTION MEETING WITH THE CONTRACTOR,
REPRESENTATIVES OF ALL UTILITY COMPANIES, THE CITY OF CANTON
ENGINEERING DEPARTMENT AND THE CITY OF CANTON WATER
DEPARTMENT IS REQUIRED FOR THIS PROJECT PRIOR TO THE START
OF ANY CONSTRUCTION ACTIVITY.

THE CITY ENGINEER WILL CONTACT THE CONTRACTOR TO ARRANGE A MEETING DATE. THE CITY ENGINEER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

PROJECT SAFETY:

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES. THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL O.S.H.A. REGULATIONS. ADEQUATE BARRICADES, WARNING LIGHTS, SIGNS, FENCING, ETC. SHALL BE ERECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOURS TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE/AREA. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES. THE CONTRACTOR SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING AND CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

UNDERGROUND UTILITIES:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS, AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.

PROJECT COMPLETION:

THE WORK EMBRACED IN THIS CONTRACT SHALL BE SUBSTANTIALLY COMPLETE <u>60</u> CALENDAR DAYS AFTER THE NOTICE PROCEED.

AN INTERIM COMPLETION DATE OF JULY 19. 2015 SHALL BE EFFECTIVE FOR WORK BETWEEN PARK DRIVE AND 12TH STREET (SLM 2.30 TO SLM 3.41). THE MINIMUM ACCEPTABLE WORK TO BE COMPLETED IN THIS SECTION BY THE INTERIM DATE INCLUDES ALL PAVING PROCEDURES, CURB RAMP INSTALLATION, TEMPORARY PAVEMENT MARKINGS, AND CASTING ADJUSTMENTS/RECONSTRUCTIONS. THE INTERIM COMPLETION DATE (JULY 19, 2010) SHALL NOT BE ADJUSTED BY WEATHER DAYS; HOWEVER, THE CONTRACTOR WILL BE GUARANTEED 30 WORKING DAYS FROM THE NOTICE TO PROCEED (NTP) TO COMPLETE THE WORK BEFORE LIQUIDATED DAMAGES ARE ASSESSED. WEATHER DAYS MAY BE APPLIED TO THE END OF THE 60 DAY COMPLETION DATE.

UTILITY NOTIFICATION:

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OPERATIONS ON THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE REGISTERED UTILITY PROTECTION AGENCY/SERVICE, AND THE OWNERS OF ANY OTHER UTILITIES (PUBLIC AND/OR PRIVATE) THAT MAY HAVE UTILITY LINES OR FACILITIES WITHIN THE VICINITY OF THIS PROJECT BUT WHO ARE NOT MEMBERS OF THE REGISTERED UTILITY PROTECTION SERVICE. THE OWNERS OF ANY UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS AFTER NOTICE IS RECEIVED, EXCLUDING SATURDAYS, SUNDAYS AND OTHER LEGAL HOLIDAYS; STAKE, MARK OR OTHERWISE DESIGNATE THE EXISTENCE AND/OR LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING AND/OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO WORKING DAYS AHEAD OF THE PLANNED CONSTRUCTION.

OHIO UTILITIES PROTECTION SERVICE: 1-800-362-2764 (CONTACT NON-

THE PRIMARY UTILITIES WITHIN THE CITY OF CANTON AREA:

NATURAL GAS DIST./TRANS.
DOMINION EAST OHIO GAS
320 SPRINGSIDE DR.
AKRON, OHIO 44333
330-664-2409
ATTN: BRYAN DAYTON
RELOCATION®DOM.COM
EMERGENCY NO.
1-800-521-4400

COMMUNICATIONS CABLE TIME WARNER CABLE 5520 WHIPPLE AVE N.W. NORTH CANTON, OHIO 44720 330-494-9200 ext. 330-555-3003 ATTN: JUSTIN FREUDEMAN 330-492-9200 X3305553192 330-472-4449(CELL)

SANITARY AND STORM SEWER CITY ENGINEER'S OFFICE 2436–30TH ST. N.E. CANTON, OHIO 44705 330–489–3381 ATTN: DAN MOEGLIN

TRAFFIC INTERCONNECT CITY ENGINEER'S OFFICE 2436-30TH ST. N.E. CANTON, OHIO 44705 330-489-3381 ATTN: NICK LOUKAS IELEPHONE
AT&T
50 WEST BOWERY STREET
AKRON, OHIO 44308
ATTN: RICH WILSON
330-384-2245
CINDY ZUCHEGNO
330-384-3561
EMERGENCY NO. - 24 HRS
1-800-572-4545 OPTION#4

ELECTRIC
AMERICAN ELECTRIC POWER
301 CLEVELAND AVE. S.W.
P.O. BOX 24400
CANTON, OHIO 44701-4400
330-438-7739
ATTN: DWIGHT PARRISH
EMERGENCY No.
1-800-672-2017

WATER
WATER DEPARTMENT
2664 HARRISBURG RD. N.E.
CANTON, OHIO 44708
330-489-3310
ATTN: BRENT BURRIER OR
LEWI MILLER

THE CITY ENGINEER'S OFFICE IS TO BE CONTACTED DIRECTLY FOR SANITARY AND STORM SEWER AND TRAFFIC INTERCONNECT FACILITIES LOCATION: 330-489-3381.

EXPLORATORY BORINGS:

EXPLORATORY SOIL BORING INFORMATION IS NOT THE RESPONSIBILITY OF THE CITY OF CANTON. IT IS THE CONTRACTOR RESPONSIBILITY TO REVIEW ANY AND ALL INFORMATION AVAILABLE. IF CONTRACTOR REQUESTS TO DRILL AND OR EXCAVATE WITHIN THE CITY'S R/W, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THIS WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY NOTIFICATION, AS SPECIFIED, ALL TRAFFIC CONTROL, PREMIUM BACKFILL, COMPACTION AND RESTORATION, AS NECESSARY.

CONTINGENCY QUANTITIES:

WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY QUANTITIES ARE TO BE PERFORMED ONLY UNDER DIRECTION OF THE CITY ENGINEER. THE DEVELOPER/CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE DEVELOPER/CONTRACTOR AND THE ENGINEER.

CONSTRUCTION INCIDENTALS

PLAN DISCREPANCIES:

ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT THE APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND/OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE ABOVE.

FAILURE BY THE CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

VERIFICATION OF UNDERGROUND UTILITIES:

TTHE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT, THE CONTRACTOR SHALL UNCOVER AND DETERMINE THE ELEVATION, SIZE. SLOPE/GRADE AND MATERIAL OF EXISTING UNDERGROUND UTILITIES/CONDUITS ALONG THE ROUTE OF CONSTRUCTION, AS SHOWN ON DRAWINGS OR MARKED AT THE TIME OF CONSTRUCTION BY THE UTILITY OWNER.

PROTECTION OF UTILITIES:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS APPROVED BY THE OWNERS OF THE UTILITY AND THE CITY ENGINEER..

THE CONTRACTOR SHALL BE RESPONSIBLE TO CLOSELY COORDINATE THEIR WORK WITH ALL UTILITY COMPANIES. ANY POTENTIAL DELAYS WILL NOT BE THE RESPONSIBILITY OF THE CITY.

THE CONTRACTOR SHOULD EXPECT AT A MINIMUM ONE SANITARY SEWER LATERAL, ONE ROOF DRAIN, ONE WATER SERVICE, AND ONE GAS SERVICE FOR EACH LOT. ANY OF THE ABOVE UTILITIES DAMAGED DUE TO THE CONTRACTOR'S WORK SHALL BE RESTORED TO THE UTILITY OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL ADEQUATELY SUPPORT, SHORE UP, OR OTHERWISE PROTECT UNDERGROUND UTILITIES WHENEVER EXPOSED IN THE TRENCH. SUPPORTS SHALL BE EXTENDED A MINIMUM OF 12 INCHES INTO UNDISTURBED EARTH EACH SIDE OF TRENCH. CONTRACTOR SHALL BAND OR TIE UTILITY TO BRIDGING FOR ITS FULL LENGTH. WHERE BRIDGING CANNOT BE SUPPORTED BY A FIRM FOUNDATION, CONTRACTOR SHALL PROVIDE VERTICAL SUPPORT, INCLUDING ANY LATERAL BRACING NECESSARY TO PROVIDE FIRM SUPPORT.

ABOVE GROUND (AERIAL) UTILITIES, INCLUDING, BUT NOT LIMITED TO, POWER, TELEPHONE AND CABLE TELEVISION, ETC., SHALL REMAIN IN SERVICE AT ALL TIMES. ANY ANTICIPATED DISRUPTION OF SERVICE SHALL BE WITH THE FULL KNOWLEDGE OF THE UTILITY COMPANY AND REQUIRES ADVANCE NOTICE TO AFFECTED USERS. REMOVAL OF GUY WIRES AND HOLDING OF POLES SHALL BE COMPLETED AS REQUIRED TO COMPLETE THE WORK, SHALL BE AS AGREED UPON BY THE UTILITY COMPANY AND CONTRACTOR, AND SHALL BE AT THE EXPENSE OF CONTRACTOR.

MAINTENANCE OF UTILITY SERVICES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UTILITY SERVICES AT ALL TIMES.

WATER SERVICE MAY BE INTERRUPTED FOR LIMITED PERIODS (4 HOURS MAXIMUM). NO SHUT DOWN SHALL OCCUR WITHOUT WRITTEN PERMISSION OF THE CITY OF CANTON WATER DEPARTMENT. PROPERTY OWNERS AFFECTED BY APPROVED INTERRUPTED SERVICE SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR.

STORM SEWER AND SANITARY SEWER SERVICES SHALL BE MAINTAINED WITHOUT INTERRUPTION, UNLESS APPROVED BY THE CITY ENGINEER.

IN THE EVENT THAT CONSTRUCTION DISRUPTS THE FLOW OF A SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY RECTIFY THE DISRUPTED SEWER BY EITHER TEMPORARILY FLUMING WITH MATERIALS ACCEPTABLE TO THE ENGINEER OR BYPASSING WITH PUMPS. COST OF MAINTAINING AND REPAIR OF SANITARY SEWERS DISTURBED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION NOISE:

CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT, SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY ENGINEER. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER—OPERATED CONSTRUCTION—TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M., UNLESS AUTHORIZED BY THE CITY ENGINEER.

CLEANUP AND DISPOSAL:

DURING WORK, KEEP ROADS CLEAN AND WORK AREAS IN AN ORDERLY CONDITION. AT THE END OF THE PROJECT, ALL STREETS AND ROADWAYS EFFECTED BY THIS PROJECT SHALL BE SWEPT.

ALL WASTE MATERIAL GENERATED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE OFFSITE AT NO COST TO THE CITY.

OPEN TRENCH CONSTRUCTION AND TRENCH PROTECTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION /TRENCHING PRACTICES FOR THE PROPOSED IMPROVEMENT, OR AS FURTHER SHOWN ON THE PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL FOLLOW ALL LOCAL AND STATE REGULATION, INCLUDING FEDERAL REGULATION, PART 1926, SUB PART P FOR ALL APPLICABLE REQUIREMENTS AND RESPONSIBILITIES.

PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF THE PROJECT'S ASSIGNED "COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

PROVIDE TRENCH PROTECTION USING A TRENCH BOX, WOOD SHEETING AND BRACING, OR SUCH OTHER METHOD AS DETERMINED BY CONTRACTOR TO MAINTAIN A SAFE WORKING ENVIRONMENT. ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE LAWS AND REGULATIONS (FEDERAL, STATE AND LOCAL).

FOR WOOD SHEETING AND BRACING USE SOUND LUMBER SUITABLE FOR THE PURPOSE INTENDED, AND ARRANGE SO AS TO SUPPORT THE TRENCH WALLS AND EXISTING STRUCTURES AND UTILITIES.

SHEETING AND BRACING SHALL BE REMOVED BY THE CONTRACTOR AFTER PLACING AND COMPACTING BACKFILL TO A LEVEL AT LEAST 2 FEET ABOVE THE PIPE TOP. DO NOT PULL SHEETING IN INCREMENTS EXCEEDING 3 TO 4 FEET IN ORDER TO AVOID THE DANGER OF BREAKING THE BURIED UTILITY DUE TO THE WEIGHT OF THE BACKFILL. UPON REMOVAL, IMMEDIATELY FILL AND RECOMPACT VOIDS LEFT DUE TO SUCH REMOVAL.

TRENCH CLOSING AND TEMPORARY TOPPING:

THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER COMPLETED AT THE END OF THE DAY OR SUSPENDED FOR ANY OTHER REASON.

AS A MINIMUM, THE CITY REQUIRES ALL TRENCHES TO BE TOPPED WITH 4" OF ODOT 304 LIMESTONE FOR TRENCHES WITHIN EXISTING ROADWAY PAVEMENTS WHEN THE ROADWAY WILL BE OPENED TO VEHICULAR TRAFFIC PRIOR TO PAVEMENT REPLACEMENT.

THE TRENCH TOPPING MATERIAL SHALL BE ROLLED OR OTHERWISE COMPLETED AND BE FURNISHED FLUSH WITH THE EXISTING ADJUNING PAVEMENT

DUST CONTROL:

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL.

TESTING OF UTILITIES:

ALL NEWLY CONSTRUCTED WATERLINES AND SANITARY SEWERS (INCLUDING LATERALS) MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE STANDARDS (AWWA, ETC.), PER THE OHIO ENVIRONMENTAL PROTECTION AGENCY AND PER THE REQUIREMENTS OF THE CITY OF CANTON CITY AND WATER FNGINFFRING DEPARTMENT.

PRESERVATION OF EXISTING STRUCTURES:

THE CONTRACTOR SHALL PERFORM WORK SO AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPER BOX, TELEPHONE OR POWER POLES, SIGNS, FENCES, RETAINING WALLS, LANDSCAPING ITEMS, ETC. ANY ITEM DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

OFFICE OF THE CITY ENGINEER CANTON, OHIO
DANIEL J. MOEGLIN, P.E., CITY ENGINEER
2435 50th STREET N.E. 4705 (330)469-3351

GENERAL NOTES FULTON RD. NW PAVING PROJECT

DATE: 8/15/08	DRAWN BY: NJL	REVIS
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27.11	Approven by.	DESCRIPTION
H. SCALE: N/A	ALLENOVED DI.	
	2000	
V. SCALE: N/A	FIELD BOOK:	
SHEET 3 OF 13	FILE NAME: GENERAL NOTES 1	

SALVAGED CASTINGS:

WHEN DIRECTED BY THE CITY ENGINEER, ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED ON SITE OR DELIVERED TO A LOCATION DESIGNATED BY THE CITY ENGINEER.

CONSTRUCTION LAYOUT:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT UTILIZING PERTINENT PLAN DATA. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR STAKING HORIZONTAL OR VERTICAL CONTROL. CONSTRUCTION LAYOUT SHALL BE IN ACCORDANCE WITH ODOT 623 CONSTRUCTION LAYOUT STAKES.

AT THE CITY ENGINEER'S REQUEST THE CONTRACTOR SHALL MAKE AVAILABLE ALL SURVEY FIELD NOTES FOR REVIEW.

EXISTING MONUMENTATION:

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND/OR ANY TYPE OF LAND MONUMENT. (HE SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED.) THE CONTRACTOR SHALL REPLACE/RESET ANY DISTURBED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

DEWATERING OPERATIONS:

WHEN DEEMED NECESSARY, THE CONTRACTOR MAY INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE PROPOSED LOCATION OF WELL POINTS, HEADER PIPE, ELECTRICAL DISTRIBUTION, GENERATORS AND DISCHARGE PIPES, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS MAY BE NECESSARY PER STATE AND LOCAL GOVERNING AGENCIES.

INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING GROUNDING AND PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

CONTRACTOR SHALL PROVIDE ALL COMBUSTIBLE ENGINE DRIVEN GENERATORS WITH "HOSPITAL GRADE" MUFFLERS. MUFFLERS SHALL BE RATED, AT A MAXIMUM OF 67 dB AT 23 FEET AWAY RUNNING FULL LOAD.

INSPECTION:

ALL WORK REQUIRED FOR THIS IMPROVEMENT SHALL BE SUBJECT TO INSPECTION BY THE CITY OF CANTON OR THEIR DESIGNATED REPRESENTATIVE. THE CONTRACTOR SHALL GIVE A 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY INFORMED OF HIS/HER CONSTRUCTION SCHEDULE. NO WORK SHALL BE PERFORMED UNLESS AN AUTHORIZED INSPECTOR IS DESENT.

EARTHWORK / SITE WORK

EASEMENTS AND RIGHT-OF WAY:

THE CONTRACTOR SHALL STAY WITHIN THE PROPERTIES, EASEMENTS, AND/OR RIGHT-OF-WAY PROVIDED AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY. DISTURBANCE OF EXISTING FEATURES AND/OR IMPROVEMENTS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND AS APPROVED BY THE CITY ENGINEER/PROPERTY OWNER.

SUITABILITY OF SITE:

THE CITY OF CANTON WILL NOT BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE CONTRACTOR MUST APPRAISE THEMSELVES OF ANY EXISTING SITE CONDITIONS WHICH MAY AFFECT THEIR BID OR THE PERFORMANCE OF THE REQUIRED WORK. THE CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE/ESTIMATE TO THEIR SATISFACTION OF ALL SITE CONDITIONS WHICH COULD AFFECT THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE BUT NOT BE LIMITED TO UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, ETC.

REMOVAL/REPLACEMENT OF UNSUITABLE MATERIAL:

THE CONTRACTOR SHALL UNDERCUT AND REPLACE UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF THE PROPOSED UTILITIES AND ROADWAY IN ACCORDANCE WITH O.D.O.T. ITEM NO. 603 AND 203, OR AS FURTHER DESCRIBED HEREIN.

IF PLANS ALLOW FOR A CONTINGENCY ITEM FOR SUCH REMOVAL/REPLACEMENT, THE CITY WILL DOCUMENT THE LOCATION OF AREAS OF SUCH REMOVAL/REPLACEMENT FOR FINAL QUANTITY TABULATION.

RESTORATION OF DISTURBED AREAS:

EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXES OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL/REPLACEMENT SHALL BE RESTORED TO A CONDITION EQUAL TO THAT WHICH EXISTED PRIOR TO CONSTRUCTION AND TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER. RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, TOWNSHIP, COUNTY, AND/OR OTHER AGENCIES HAVING AUTHORITY. COST FOR THE RESTORATION OF THESE ITEMS WILL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR. NO PUBLIC ROADWAY SHALL BE DISTURBED WITHOUT PRIOR WRITTEN APPROVAL FROM THE GOVERNING AGENCY AND ACQUISITION OF NECESSARY PERMITS.

ROADWAY / PAVEMENT / WALK / CURB

ASPHALT CONCRETE:

CONTRACTOR SHALL SUBMIT APPLICABLE APPROVED JMF FOR ACCEPTANCE BY THE ENGINEER PRIOR TO USE. ASSOCIATED REPORTS AND DAILY PLANT PRODUCTION REPORTS SHALL BE SUBMITTED. ASPHALT DELIVERY TICKETS SHALL INCLUDE JMF NILMBER

ASPHALT BINDER PRICE ADJUSTMENT:

THIS PROJECT WILL COMPLY WITH CMS 401.20 ASPHALT BINDER PRICE ADJUSTMENT.

AGGREGATE BASE, AS PER PLAN:

THE REQUIREMENTS OF ODOT 304 SHALL APPLY; DEVIATIONS FROM THIS ARE AS FOLLOWS;

(1) NO OPEN HEARTH BASIC-OXYGEN STEEL OR GRANULAR SLAG SHALL BE PERMITTED.

CONCRETE WALK AND DRIVE APPROACHES AS PER PLAN:

THE REQUIREMENTS OF ODOT 608 CONCRETE WALKS AND RAMPS SHALL APPLY; DEVIATIONS FROM THIS ARE AS FOLLOWS:

- (1) CONCRETE MIX COARSE AGGREGATE SHALL BE LIMESTONE ONLY.
- (2) EXPANSIONS JOINTS (1/2") SHALL BE PLACED AT THE TRANSVERSE JOINTS OF THE WALK AT INTERVALS NOT TO EXCEED 30 FEET IN LENGTH.

CAST IN PLACE CONCRETE CURB. AS PER PLAN:

REQUIREMENTS OF ODOT 609 SHALL APPLY; DEVIATIONS FROM THIS ARE AS FOLLOWS:

- (1) CONCRETE MIX COARSE AGGREGATE SHALL BE LIMESTONE ONLY.
- (2) CONSTRUCTION JOINTS FOR STAND—UP CURB AND COMBINATION CURB/GUTTER SHALL BE DOWELED. DOWELS SHALL BE (2) #5 BAR, 18" IN LENGTH EQUALLY SPACED.
- (3) CURB SHALL BE CORED OR SLEEVED 3-1/2" FOR 3" DRAIN OUTLETS AT THE LOCATIONS DETERMINED BY CITY ENGINEER OR DEVELOPER, OR AS SPECIFIED ON PLAN. NOTCH CUTTING OF CURB IS PROHIBITED.

RESTRICTED WORK SCHEDULE:

NO CONCRETE FINISH WORK OR PERMANENT ASPHALT SHALL BE PLACED FROM NOVEMBER 15TH TO APRIL 15TH UNLESS WRITTEN APPROVAL IS GRANTED BY THE CITY ENGINEER.

ASPHALT/CONCRETE:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE—POUR INSPECTION PRIOR TO PLACEMENT OF ASPHALT OR CONCRETE. WORK WILL NOT PROCEED UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE CITY ENGINEER.

PROFILE AND ALIGNMENT:

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLAVE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN:

THIS ITEM OF WORK SHALL BE PERFORMED IN CONFORMANCE WITH ITEM 254 IN THE CMS EXCEPT THE DEPTH SHALL VARY; PLANE TO THE DEPTH SPECIFIED IN THE TYPICAL SECTION OR TO THE TOP OF EXISTING BRICK OR CONCRETE WHICHEVER IS FIRST. THIS WORK SHALL BE PERFORMED SO THAT THE BRICK OR CONCRETE BASE IS NOT DISTURBED. ALL EQUIPMENT, LABOR, TOOLS, AND OTHER INCIDENTALS REQUIRED TO PERFORM THIS WORK SHALL BE INLCUDED IN THE UNIT BID PRICE FOR EACH ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN.

PARTIAL DEPTH PAVEMENT REPAIR:

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION. REPAIR SHALL BE PERFORMED AS FOLLOWS:

REMOVE EXISTING ASPHALT BASE AND REPLACE WITH 3" OF ITEM 448 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE 1 PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13.

IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF PAVEMENT PLANING. ALSO, THIS ITEM SHALL COMMENCE WITHIN 7 DAYS OF THE COMPLETION OF PAVEMENT PLANING. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR 2400 SQ. YD.

PAVEMENT REPAIR:

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND REPLACING WITH NEW MATERIAL AS FOLLOWS:

COMPOSITE BRICK AND COMPOSITE CONCRETE PAVEMENT: REMOVE BRICK/CONCRETE AND BASE MATERIAL UP TO 12" AND REPLACE WITH LIKE DEPTH OF ITEM 304 AGGREGATE BASE AND 452 CONCRETE. CONCRETE DEPTH SHALL BE 6" MIN AND 9" MAX.

ASPHALT PAVEMENT: REMOVE EXISTING ASPHALT BASE UP TO 12" AND REPLACE WITH ITEM 201 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES

IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF PAVEMENT PLANING. ALSO, THIS ITEM SHALL COMMENCE WITHIN 7 DAYS OF THE COMPLETION OF PAVEMENT PLANING. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 252, FULL DEPTH PAVEMENT SAWING
ITEM 253, PAVEMENT REPAIR

<u>2000</u> FT. 500 SQ. YD.

WALK AND CURB REPLACEMENT

IT MAY BE NECESSARY TO REPLACE WALK AND CURB ADJACENT TO RECONSTRUCTED CATCH BASINS. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE IN SUCH SITUATIONS AS DIRECTED BY THE ENGINEER.

 202, WALK REMOVED
 500 S.F.

 202, CURB REMOVED
 500 FEET

 608, 5" CONCRETE WALK
 500 S.F.

 609, CURB MISC.: CANTON CITY STANDARD
 500 FEET

ITEM 609 - CURB MISC.: CANTON CITY STANDARD

THIS ITEM SHALL CONFORM TO CANTON CITY STANDARD DRAWING 42. THE TYPE SHALL BE DETERMINED IN THE FIELD ANS SHALL MATCH ADJACENT CURB TYPE.

ITEM 608 - CURB RAMPS, AS PER PLAN

CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CANTON CITY STANDARD DRAWING #33. CURB RAMP TYPE AT EACH LOCATION SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR WITH CONCURRENCE BY THE ENGINEER.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, CURB RAMPS SHALL BE INSTALLED PRIOR TO RESURFACING.

ITEM 608 - DETECTABLE WARNING, AS PER PLAN

WET SET PANELS SHALL BE USED FOR DETECTABLE WARNING, AS DEFINED IN CANTON CITY STANDARD DRAWING #33. OTHER TYPES OF DETECTABLE WARNING REFERENCED IN THE STANDARD DRAWING SHALL NOT BE USED ON THIS PROJECT.

CONCRETE CROSSWALKS

CONCRETE CROSSWALKS SHALL BE CONSTRUCTED AT LOCATIONS SPECIFIED IN THE PLANS. THE CROSSWALKS SHALL BE CONSTRUCTED AS PRE CANTON CITY STANDARD DRAWING #34 WITH THE FOLLOWING MODIFICATION. THE CONCRETE SHALL BE PAID UNDER ITEM 452 INSTEAD OF ITEM 305.

ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE:

THIS ITEM SHALL INCLUDE ALL NECESSARY MATERIALS AS PER THE CMS. THE CITY MAY PROVIDE CASTINGS. IF THE ENGINEER DETERMINES THAT A CASTING MUST BE REPLACED AND CASTING IS NOT PROVIDED BY THE CITY, PAYMENT FOR THE CASTING WILL BE MADE UNDER ITEM 611 — SPECIAL — MISCELLANEOUS METAL.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

611, MANHOLE RECONSTRUCTED TO GRADE 5 EACH

ITEM 611 - CATCH BASIN RECONSTRUCTED TO GRADE:

THIS ITEM SHALL INCLUDE ALL NECESSARY MATERIALS AS PER THE CMS. THE CITY MAY PROVIDE CASTINGS. IF THE ENGINEER DETERMINES THAT A CASTING MUST BE REPLACED AND CASTING IS NOT PROVIDED BY THE CITY, PAYMENT FOR THE CASTING WILL BE MADE UNDER ITEM 611 — SPECIAL — MISCELLANEOUS METAL.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

611, CATCH BASIN RECONSTRUCTED TO GRADE 5 EACH

ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN:

MANHOLE ADJUSTMENTS SHALL BE PERFORMED AS PER CITY OF CANTON SUPPLEMENTAL SPECIFICATION SS-07. THIS ITEM SHALL INCLUDE ALL MATERIALS DEFINED IN SS-07. IF THE ENGINEER DETERMINES THAT AN EXISTING CASTING MUST BE REPLACED THE CITY MAY PROVIDE A NEW CASTING. IF THE ENGINEER DETERMINES THAT A CASTING MUST BE REPLACED AND CASTING IS NOT PROVIDED BY THE CITY, PAYMENT FOR THE CASTING WILL BE MADE UNDER ITEM 611 - SPECIAL - MISCELLANEOUS METAL.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

611, MANHOLE ADJUSTED TO GRADE, AS PER PLAN 89 EACH

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE:

THIS ITEM SHALL INCLUDE ALL NECESSARY MATERIALS AS PER THE CMS. THE CITY MAY PROVIDE CASTINGS. IF THE ENGINEER DETERMINES THAT A CASTING MUST BE REPLACED AND CASTING IS NOT PROVIDED BY THE CITY, PAYMENT FOR THE CASTING WILL BE MADE UNDER ITEM 611 — SPECIAL — MISCELLANEOUS METAL.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

611, CATCH BASIN ADJUSTED TO GRADE 20 EA

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2439 30th STREET NE. 44705 (339)469-3361

ROADWAY / PAVEMENT / WALK / CURB (CONTINUED)

ITEM 203 - EXCAVATION:

THIS ITEM OF WORK SHALL CONSIST OF REMOVING AND DISPOSING OF ALL UNSUITABLE MATERIAL BY EXCAVATING THE EXISTING SUBGRADE AND SUBBASE TO AN AVERAGE DEPTH OF 6" OR AS DIRECTED BY THE ENGINEER. EXACT LIMITS OF REMOVAL SHALL BE DETERMINED BY THE ENGINEER. ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203, EXCAVATION. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 203, EXCAVATION

100 CU. YD.

ITEM 304 - AGGREGATE BASE:

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO BACKFILL AREAS WHICH WERE EXCAVATED UNDER ITEM 203 EXCAVATION. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE

ITEM 304, AGGREGATE BASE, AS PER PLAN

100 CU. YD.

ITEM 604 - SPECIAL - MISCELLANEOUS METAL:

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE, AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET CITY STANDARDS AND ITEM 611 OF THE CMS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

604. SPECIAL - MISCELLANEOUS METAL 20,000 POUNDS

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTING AT THE EXPENSE OF THE CONTRACTOR.

ITEM SPECIAL — FIBER REINFORCED BITUMINOUS MEMBRANE SURFACE TREATMENT. TYPE B:

THIS ITEM SHALL BE GOVERNED BY CITY OF CANTON SUPPLEMENTAL SPECIFICATION SS-06.

CONCRETE CROSSWALKS:

CONCRETE CROSSWALKS SHALL BE INSTALLED AT LOCATIONS WHERE BRICK STREETS INTERSECT THE MAINLINE. CROSSWALKS SHALL BE CONSTRUCTED AS PER CITY OF CANTON STANDARD DRAWING #34. APPLICABLE PAY ITEMS AND QUANTITIES ARE SHOWN IN THE PLAN SURSUMMARIES.

TRAFFIC:

EXISTING STREET NAME AND TRAFFIC CONTROL SIGNS:

WHERE WORK REQUIRES THE MOVEMENT OF EXISTING SIGNS (STOP SIGNS, SPEED LIMIT SIGNS, NO PARKING SIGNS, ETC.). THE CONTRACTOR IS REQUIRED TO MAINTAIN THE FUNCTION OF ALL TRAFFIC CONTROL SIGNS. ALL SIGNS REMOVED BY THE CONTRACTOR SHALL BE STORED ON SITE AND REINSTALLED BY THE CONTRACTOR.

VEHICLE DETECTION

EXISTING LOOP DETECTROS WILL BE DESTROYED DURING CONSTRUCTION OPERATIONS. LOOPS DETECTORS WILL BE REPLACED WITH VIDEO DETECTION UNITS AS DESCRIBED BELOW.

ITEM 816 - VIDEO DETECTION SYSTEM, AS PER PLAN

THIS ITEM OF WORK SHALL MEET STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) SUPPLEMENTAL SPECIFICATION 816. VIDEO DETECTION SYSTEM. IN ADDITION TO THE REQUIREMENTS OF ODOT'S SUPPLEMENTAL SPECIFICATION 907 THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY:

THE THERMAL TRAFFIC SENSOR AND DETECTION MODULE MUST BE INTEGRATED IN ONE HOUSING WITHOUT THE NEED FOR ANY ADDITIONAL DETECTION SOFTWARE OUTSIDE OF THIS HOUSING. BY USING ONE OR MORE PREDEFINED DETECTION ZONES, THE DETECTION SOFTWARE WILL HAVE THE ABILITY TO DETECT VEHICLES AND BICYCLES ON MULTIPLE LANES. BICYCLE DETECTION ZONES WILL BE SEPARATE FROM VEHICLE DETECTION ZONES AND WILL UTILIZE A DIFFERENT SET OF DETECTION ALGORITHMS.

THE THERMAL IMAGING SENSOR SHALL BE FLIR ITS TRAFISENSE, BOSCH MODEL VOT-320 THERMAL IP, OR WTI MODEL C-MAX THERMAL SERIES 320.

THE DETECTION SOFTWARE WILL HAVE THE ABILITY TO DIFFERENTIATE BETWEEN VEHICLES AND BICYCLES WITH A HIGH LEVEL OF ACCURACY AND ALLOW FOR SEPARATE OUTPUTS TO BE USED FOR VEHICLE PRESENCE AND BICYCLE PRESENCE.

THE DETECTION SYSTEM SHALL GENERATE SEPARATE VEHICLE AND BICYCLE PRESENCE EVENTS AND COUNTING DATA. THE GENERATED VEHICLE AND BICYCLE PRESENCE EVENTS WILL BE SENT TO A TRAFFIC SIGNAL CONTROLLER.

IT MUST BE POSSIBLE TO PUT 4 VIRTUAL BICYCLE PRESENCE DETECTION ZONES IN THE IMAGE. STORAGE OF BICYCLE COUNT INFORMATION SHALL BE POSSIBLE.

THE NECESSARY VIDEO DETECTION CAMERAS MUST PROVIDE A COMMUNICATIONS INTERFACE THAT FULLY SUPPORTS AN ETHERNET IEEE 802.3 COMPLIANT 10/100BASE T AUTO SENSING PORT FOR ADVANCED SYSTEMS COMMUNICATIONS. THE ETHERNET PORT SHALL PROVIDE AN UPSTREAM CONNECTION TO OTHER ETHERNET DEVICES IN THE CABINET. AN INDUSTRY STANDARD RJ-45 TYPE CONNECTOR SHALL BE INCLUDED THAT SUPPORTS A SIMPLE CATS 5E PATCH CABLE INTERFACE.

THE THERMAL TRAFFIC SENSOR SHALL INCLUDE A 10-YEAR WARRANTY ON THE THERMAL DETECTOR.

THE VIDEO DETECTION CAMERAS SHALL ALSO HAVE THE CAPABILITIES TO DETECT BICYCLES.

ALL SOFTWARE UPGRADES NECESSARY TO MAINTAIN THE FUNCTIONALITY OF THIS ITEM IS INCLUDED IN THE COST OF

ALL CAMERAS SHALL HAVE THE CAPABILITY TO REACH 350 FEET TO DETECT SYSTEM DETECTION ZONES.

THE SUPPLIER SHALL PROVIDE VIDEO DETECTION TRAINING TO THE CITY OF CANTON WITHIN FIVE (5) DAYS OF SYSTEM ACCEPTANCE. TRAINING SHALL BE DIVIDED INTO TWO (2) COURSES, MAINTENANCE TRAINING AND OPERATION TRAINING, AND SHALL INCLUDE, BUT NOT LIMITED TO. THE SOFTWARE AND TROUBLESHOOTING. TRAINING SHALL BE CONDUCTED AT A LOCATION DESIGNATED BY THE CITY OF CANTON. TRAINING COURSES SHALL ACCOMMODATE UP TO TEN (10) PEOPLE AND SHALL CONSIST OF A MINIMUM FOUR (4) HOURS EACH. THE LENGTH OF EACH TRAINING COURSE IS AT THE DISCRETION OF THE CITY OF CANTON. THE COST FOR TRAINING SHALL BE INCIDENTAL TO THE CONTROLLER BID ITEMS (BID ITEMS 633).

PAYMENT FOR ITEM 816 - VIDEO DETECTION SYSTEM, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH VIDEO DETECTION CAMERA IN PLACE AND FULLY OPERATIONAL AS SHOWN IN THE PLANS. ALL MATERIALS AND WORK REQUIRED TO COMPLETE THIS ITEM, INCLUDING ATTACHMENT BRACKETS, SHALL BE INCLUDED IN THE UNIT COST.

VIDEO DETECTION WILL BE INSTALLED AS DIRECTED BY THE ENGINEERING AT THE FOLLOWING INTERSECTIONS

25TH STREET (3 UNITS)

18TH STREET (2 UNITS)

14TH STREET (2 UNITS)

10TH STREET (2 UNITS)

7TH STREET (2 UNITS) 4TH STREET (2 UNITS)

TUSCARAWAS ST. (1 UNITS)

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL

ITEM 816 - VIDEO DETECTION SYSTEM, AS PER PLAN 14 EACH

ALTERNATE BID ITEM

ITEM 816 - VIDEO DETECTION SYSTEM. (TRAFICON). AS PER PLAN THIS VIDEO DETECTION SYSTEM ITEM SHALL HAVE THE SAME SPECIFICATIONS AS ITEM 633 - VIDEO DETECTION SYSTEM, AS PER PLAN EXCEPT FOR THE FOLLOWING:

- I. THE DETECTION SHALL USE THE TRAFICON USA TRAFFIC VIDEO DETECTION.
- 2. THE VIDEO DETECTION CAMERAS SHALL BE THERMAL CAMERAS MANUFACTURED BY FLIR.

ITEM 614 - LONGITUDINAL CHANNELIZER

LONGITUDINAL CHANNELIZERS SHALL BE PROVIDED AS CALLED FOR IN THE PLANS. A LONGITUDINAL CHANNELIZER CONSISTS OF A COMBINATION OF VERTICAL COMPONENTS AND LONGITUDINAL BASE COMPONENTS, FIT TOGETHER TO CREATE A CONTINUOUS CHANNELIZING DEVICE, AS DETAILED IN PIS 2010180. USE OF TUBULAR MARKERS, AS IDENTIFIED IN THE OMUTCD, FIGURE 6F-7, SHALL NOT QUALIFY FOR USE AS A LONGITUDINAL CHANNELIZER.

THE VERTICAL COMPONENT SHALL BE EQUIPPED WITH TWO 3-INCH WIDE RETROREFLECTIVE BANDS, PLACED A MAXIMUM OF 2 INCHES FROM THE TOP, WITH A MAXIMUM OF 6 INCHES BETWEEN THE BANDS. THE LONGITUDINAL BASE COMPONENTS SHALL BE EQUIPPED WITH REFLECTORS.

THE LONGITUDINAL CHANNELIZER SHALL BE NCHRP 350 COMPLIANT.

THE COLOR OF ALL COMPONENTS SHALL BE YELLOW.

THIS CHANNELIZER IS INTENDED TO BE A PERMANENT INSTALLATION.

FOR INSTALLATION PROCEDURES, FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT FOR PROVIDING AND INSTALLING THIS CHANNELIZER WILL BE MADE AT THE UNIT PRICE PER FOOT.

ALTERNATE BID

ITEM 614 - LONGITUDINAL CHANNELIZER. (OWICK KURB) ITEM SHALL HAVE THE SAME SPECIFICATIONS AS ITEM 614 -LONGITUDINAL CHANNELIZER, BUT SHALL BE "QWICK KURB" AS MANUFACTURED BY QWICK KURB, INC., 1916 U.S. 41 SOUTH, RUSKIN, FL 33570

POST CONSTRUCTION INCIDENTALS

RELEASE OF RETAINER/BONDS:

PRIOR TO THE RELEASE OF RETAINER/CONSTRUCTION BOND BY THE CITY OF CANTON, THE CONTRACTOR SHALL HAVE COMPLETED THE ENGINEER'S PROJECT PUNCHLIST AND SUBMIT. FINAL WAIVER OF LIEN, IN ACCORDANCE WITH CITY SS 01-00.

CITY ENGINEER

I, OHIO
P.E., CITY ENGINEER

4705 (330)489-3381 CANTON, CANTON, LJ. MOEGLIN, P.E., 30th STREET NE. 44705 OFFICE DANIEL 2436 3

> PROJECT NOTES PAVING GENERAL N RD. ULTON

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MAINTAINING TRAFFIC:

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO AND THROUGH THE PROJECT AS DESCRIBED BELOW AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO DEPARTMENT OF WITH THE REQUIREMENTS OF THE UNIO DEPARTMENT OF TRANSPORTATION MANUAL OF CONSTRUCTION AND MATERIALS SPECIFICATIONS ITEM 614 MAINTAINING TRAFFIC. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL SIGNS, FLAGS, FLAGMEN, WATCHMEN, BARRICADES, SIGN SUPPORTS, CONES, BARRELS, AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT REVISIONS OF THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE

PAVING OPERATIONS

- 1. THE CONTRACTOR MUST MAINTAIN TWO—WAY TRAFFIC ON FULTON RD. AT ALL TIMES. DURING WORKING HOURS, IF ONE LANE IN EACH DIRECTION CAN NOT BE MAINTAINED, FLAGGERS MAY BE USED. DURING NON-WORKING HOURS, A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON FULTON RD. ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT AT ALL TIMES.
- 2. CONES SHALL NOT BE ACCEPTABLE TRAFFIC CONTROL DEVICES FOR LANE RESTRICTIONS OR LANE REDUCTIONS THAT ARE IN OPERATION ONE—HALF HOUR AFTER SUNSET OR ONE—HALF HOUR BEFORE SUNRISE. ALL NIGHTTIME LANE RESTRICTIONS SHALL REQUIRE DRUMS OR BARRICADES AT A MINIMUM SPACING OF FIFTY
- LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING MATERIALS.
- 4. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, AND SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.
- ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED.
- 6. ONLY DURING OFF-PEAK PERIODS (I.E. ANY PERIOD OTHER THAN 6-BAM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
- 7. IN ADDITION TO THE REQUIREMENTS OF 614 WORK ZONE PAVEMENT MARKINGS (<614.11>), AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LANES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PAVEMENT PLACING OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.
- 8. A QUANTITY OF 50 CU. YD. OF 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS, AND OTHER LOCATIONS PRIOR TO RESURFACING, AS DIRECTED BY THE ENGINEER.
- 9. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.
- 10. ACCESS SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY AND FIRE DEPARTMENT VEHICLES.
- 11. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENCES AND BUSINESSES DURING CONSTRUCTION. IN THE EVENT A DRIVE ACCESS NEEDS TO BE CLOSED, THE CONTRACTOR SHALL GIVE NOTICE OF CLOSURE AND DURATION TO THE PROPERTY OWNER 24 HOURS IN ADVANCE. CONTRACTOR SHALL ARRANGE FOR ALTERNATE PARKING AND REASONABLE ACCESS FOR THOSE PROPERTY OWNERS AFFECTED BY DRIVE CLOSURES.

A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGN HAS BEEN INCLUDED IN THE PLAN. THE QUANTITY SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING SIGNS: WB-1 [BUMP], WB-11 [UNEVEN LANES SYMBOL]. THESE QUANTITIES SHALL BE AS PER

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

PHASE 1 — PLANED SURFACE
614, WORK ZONE CENTER LINE, CLASS II, <u>1.86</u> MILE
614, WORK ZONE LANE LINE, CLASS II, <u>1.02</u> MILE

614, WORK ZONE CHANNELIZING LINE, CLASS I, 1090 FT. 614, WORK ZONE STOP LINE, CLASS I, 290 FT.

614, WORK ZONE MARKING SIGN (ALL PHASES), 16 EACH

PHASE 2 - INTERMEDIATE COURSE

614, WORK ZONE CENTER LINE, CLASS II, <u>1.97</u> MILE 614, WORK ZONE LANE LINE, CLASS II, <u>1.13</u> MILE 614, WORK ZONE CHANNELIZING LINE, CLASS <u>I</u>, <u>1245</u> FT.

614, WORK ZONE STOP LINE, CLASS I, 355 FT.

PHASE 3 - SURFACE COURSE

614, WORK ZONE CENTER LINE, CLASS II, <u>1.97</u> MILE 614, WORK ZONE LANE LINE, CLASS II, <u>1.13</u> MILE 614, WORK ZONE CHANNELIZING LINE, CLASS I, <u>1245</u> FT.

614. WORK ZONE STOP LINE, CLASS I, 355 FT.

TRAFFIC CONTROL INSPECTOR:

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS STREET
BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND
PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT
THE PRE—CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY
HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUNP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PARTOL CAR:

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LAW ENFORCEMENT OFFICER (LEO) WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC AS DIRECTED BY THE ENGINEER FOR THE FOLLOWING TASKS:

1. FOR LANE CLOSURES: DURING INITIAL SET—UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

LAW ENFORCEMENT OFFICERS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICAL PARTOL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES

CITY OF CANTON POLICE DEPARTMENT 221 THIRD STREET S.W. CANTON, OHIO 44702

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR 200

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, HE MAY DO SO AT HIS OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE:

A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. PAVERS, ROLLERS AND OTHER EQUIPMENT MAY NOT BE PARKED ON CLEVELAND AVENUE, BUT MAY BE PARKED ON SIDE STREETS, WITH THE ENGINEER'S APPROVAL, WHEN PAVING OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY. OTHERWISE THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE R/W, THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG A SIDE STREET, ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORAGE AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER HAS BEEN GRANTED.

FFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2435 50th Street NE. 44705 (330)489-3381 OFFICE

> PROJECT TRAFFIC PAVING OF **FENANCE** MN RD.

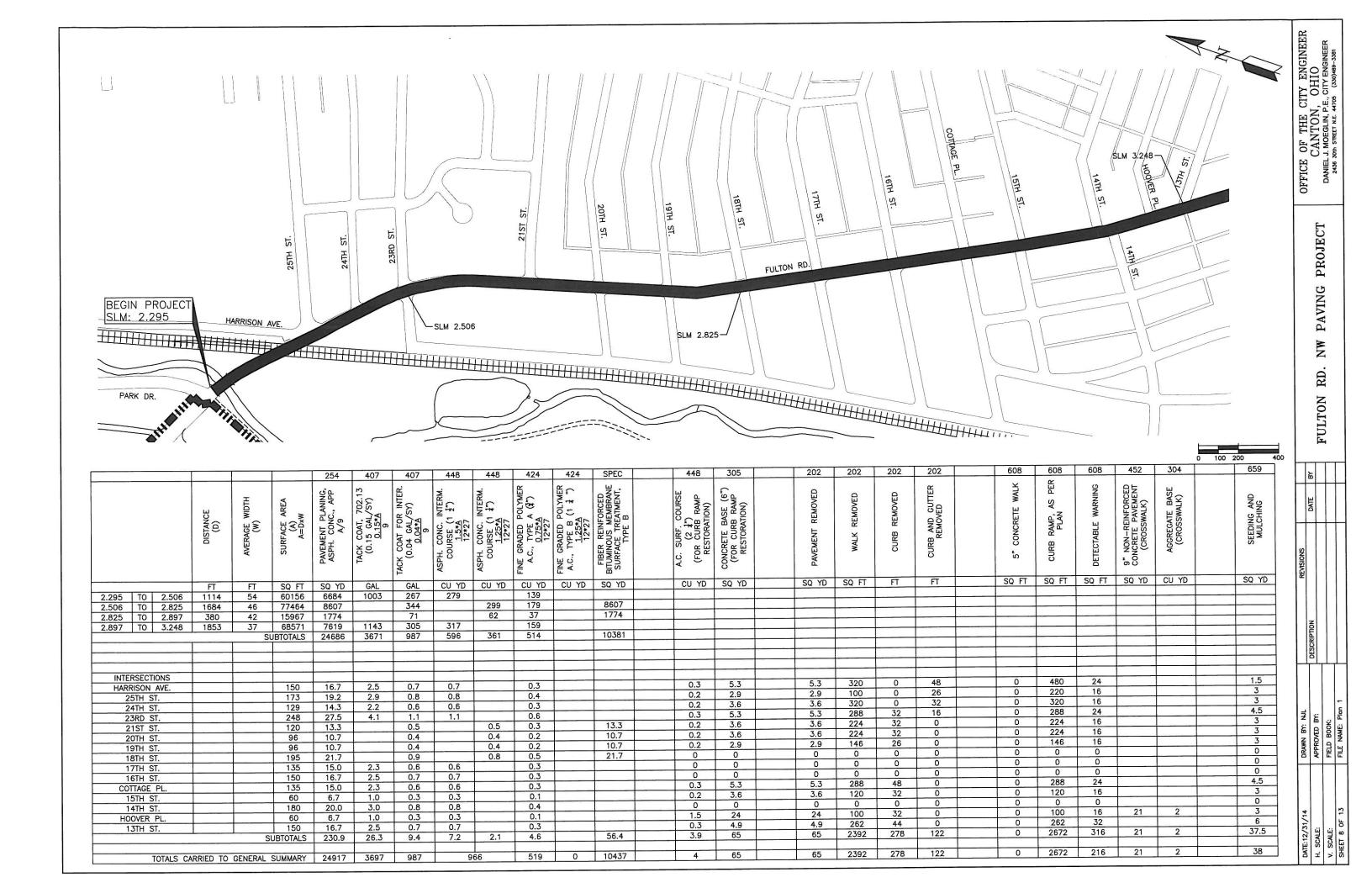
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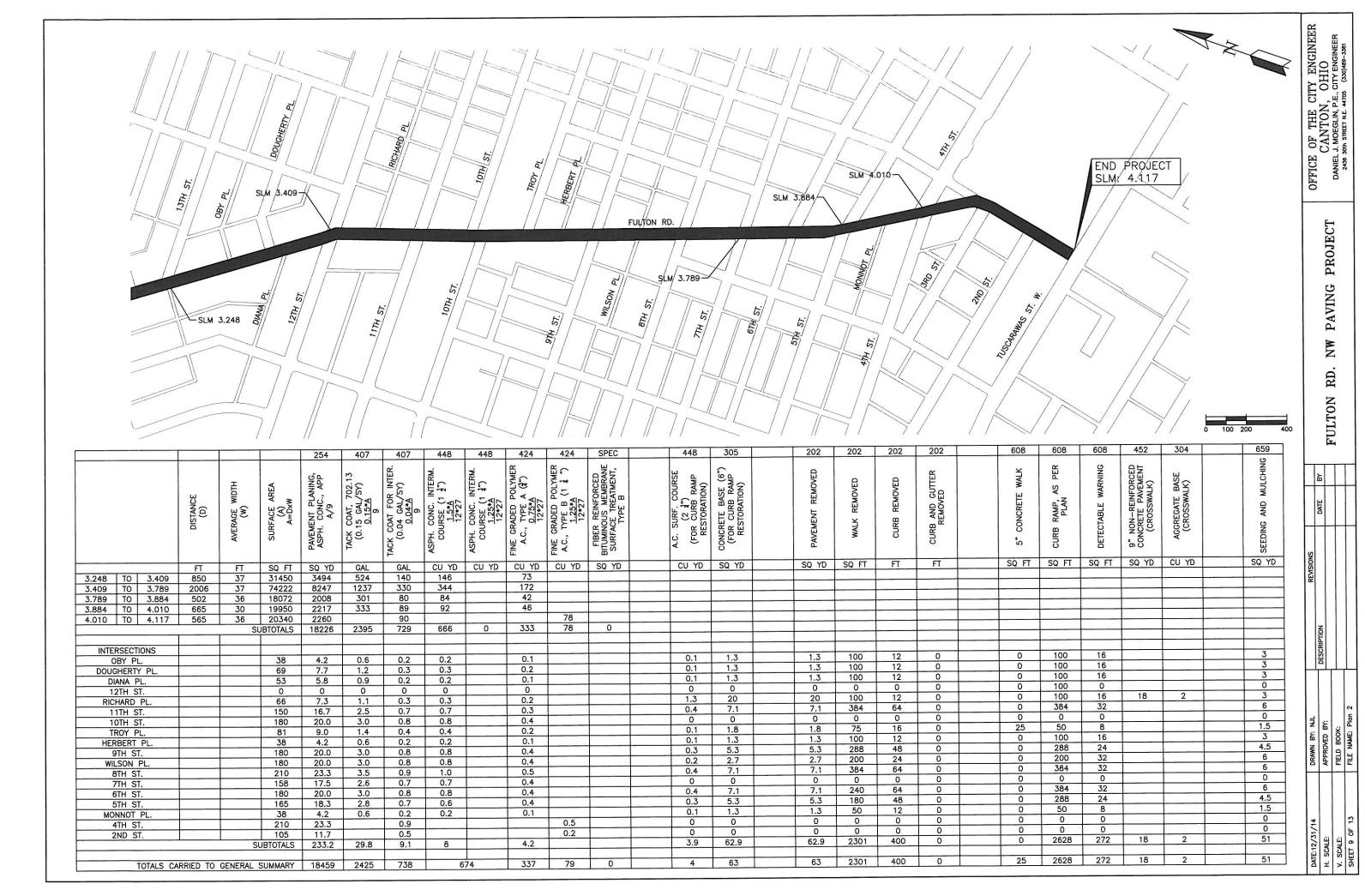
	1							ITEM	GRAND		DECODIDATION	SEI
4	5	6	8	9	13		ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	NO
											ROADWAY	
	-		65	63			202	23000	128		PAVEMENT REMOVED	
500			2392	2301			202	30000	5193		WALK REMOVED CURB REMOVED	
500			278 122	400			202	32000 32500	1178 122		CURB AND GUTTER REMOVED	
	100		122				203	30000	100	CY	EXCAVATION	
	100										ET CONODETE WALK	
500				25			608 608	12000 52001	525 5300	SF SF	5" CONCRETE WALK CURB RAMP, AS PER PLAN	4
			2672 216	2628 272			608	53021	488	SF	DETECTABLE WARNING, AS PER PLAN	4
500			210	2.12			609	98000	500	FT	CURB MISC.: CANTON CITY STANDARD	
							659	10000	89	SY	SEEDING AND MULCHING	
			38	51			639	10000	09	- 31	SEEDING THE MICEONING	
											PAVEMENT	
							251	01000	2400	SY	PARTIAL DEPTH PAVEMENT REPAIR	
2400				-			252	01500	2000	FT	FULL DEPTH PAVEMENT SAWING	
2000 500							253	01000	500		PAVEMENT REPAIR	
			24917	18459			254	01001	43,376	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	
	100		2	2			304	20001	104	CY	AGGREGATE BASE, AS PER PLAN	
	100		3697	2425			407	13900	6122	GAL	TACK COAT, 702.13	
			987	738			407	14000	1725	GAL	TACK COAT FOR INTERMEDIATE COURSE FINE GRADED POLYMER ASPHALT CONCRETE, TYPE A	
			519	337 79			424 424	10000	856 79	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B	
			966	674			448	46020	1640	CY	ASPHALT CONCRETE FOR INTERMEDIATE COURSE, TYPE 1, PG64-22	$\overline{}$
			10437	0			SPEC	46020	10,437	CY	FIBER REINFORCED BITUMINOUS MEMBRANE SURFACE TREATMENT, TYPE B	
			21	18			452	13000	39	SY	9" NON-REINFORCED CONCRETE PAVEMENT	
			21	10			102					
											SEWERS	
- 00					-		611	98630	20		CATCH BASIN ADJUSTED TO GRADE	
5	+						611	98634	5		CATCH BASIN RECONSTRUCTED TO GRADE	
89							611	99655	89 5		MANHOLE ADJUSTED TO GRADE, AS PER PLAN MANHOLE RECONSTRUCTED TO GRADE	_
5				-	<u> </u>		611	99660	3			
	20000			<u> </u>			611	99820	20,000	POUNDS	SPECIAL - MISCELLANEOUS METAL	
		-									TRAFFIC CONTROL	
	14	-					816	30001	14	EACH	VIDEO DETECTION SYSTEM, AS PER PLAN	
							644	00200	1.13	MILE	LANE LINE	
		-		+	1.13		644	00300	1.97		CENTER LINE	
					1245		644	00400	1245	FT	CHANNELIZING LINE, 6"	-
					355		644	00500	355	FT	STOP LINE	
					1350		644	00600	1350	FT	CROSSWALK LINE	
					210		644	00700	210	FT	TRANSVERSE/DIAGONAL LINE RAILROAD SYMBOL MARKING	-
					31		644 644	01000 01300	31	EACH EACH	LANE ARROW	
			+		31							
					210		614	40000	210	FT	LONGITUDINAL CHANNELIZER	-
		_		-	+						MAINTENANCE OF TRAFFIC	
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		200					614	11100	200	HOUR EACH	LAW ENFORCEMENT OFFICER WITH PATROL CAR ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	\vdash
		50					614 614	12460 13000	50 16	EACH	WORK ZONE SIGN (ALL PHASES)	
	-	16 3.28		1			614	20400	3.28	MILE	WORK ZONE LANE LINE, CLASS II	
		5.80					614	21400	5.80	MILE	WORK ZONE CENTER LINE, CLASS II WORK ZONE CHANNELIZING LINE, CLASS I	-
		3580					614 614	23000 26000	3580 1000	FT	WORK ZONE CHANNELIZING LINE, CLASS I WORK ZONE STOP LINE, CLASS I	
	-	1000					017	20000	1000			F
												\vdash
									1		MISCELLANEOUS	
		-	-				614	11000	LUMP		MAINTAINING TRAFFIC	\Box
							619	16010	6	MONTH	FIELD OFFICE, TYPE B	+
							623	10000	LUMP		CONSTRUCTION LAYOUT STAKING MOBILIZATION	+
					+	-	624	10000	LUMP		medicariiois	
											ALTERNATE BIDS	
							040	70001	14	EVCH	A STATE OF THE STA	-
							816 614	30001 40000	14 210	EACH FT	VIDEO DETECTION SYSTEM, (TRAFICON), AS PER PLAN LONGITUDINAL CHANNELIZER, (QWICK KURB)	

OFFICE OF THE CITY ENGINEER CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER 2435 30th STREET NE. 47705 (330)489-3381

GENERAL SUMMARY FULTON RD. NW PAVING PROJECT

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S STOP LINE

CW CROSSWALK LINE

(TY) TRANSVERSE LINE, (YELLOW), 12' C/C

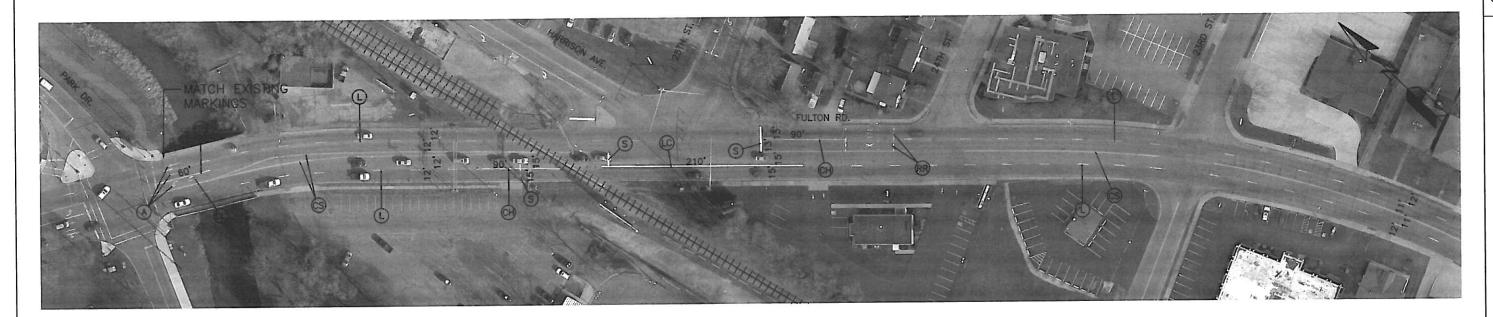
TW) TRANSVERSE LINE, (WHITE), 12' C/C

RR RAILROAD SYMBOL MARKING

(SC) SCHOOL SYMBOL MARKING, 72 INCH

(A) LANE ARROW

(LC) LONGITUDINAL CHANNELIZER





PAVEMENT MARKINGS FULTON RD. NW PAVING PROJECT

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PAVEMENT MARKING LEGEND

L LANE LINE

TY) TRANSVERSE LINE, (YELLOW), 12' C/C

CS CENTER LINE, DOUBLE, SOLID (CH) CHANNELIZING LINE
(S) STOP LINE
(CW) CROSSWALK LINE

TW TRANSVERSE LINE, (WHITE), 12' C/C (RR) RAILROAD SYMBOL MARKING

SC) SCHOOL SYMBOL MARKING, 72 INCH

A LANE ARROW

LO LONGITUDINAL CHANNELIZER







	PAVEMENT MARKINGS	Hour our distilled wife and received	FULTON KD. NW PAVING PROJECT	
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PAVEMENT MARKING LEGEND

(L) LANE LINE

(CS) CENTER LINE, DOUBLE, SOLID

(CH) CHANNELIZING LINE

S STOP LINE

CW CROSSWALK LINE

(TY) TRANSVERSE LINE, (YELLOW), 12' C/C

TW) TRANSVERSE LINE, (WHITE), 12' C/C

(RR) RAILROAD SYMBOL MARKING

SC SCHOOL SYMBOL MARKING, 72 INCH

(A) LANE ARROW

(LC) LONGITUDINAL CHANNELIZER



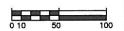
-MATCH EXISTING **MARKINGS**

-INTERSECTION TO BE RECONSTRUCTED WITH 12TH ST. PROJECT.

NOTE: CENTER THE CENTER LINE IN THIS SECTION THE ROADWAY EXCEPT AT INTERSECTIONS WITH LEFT TURN LANES.

FUSION NO.	

NOTE: CENTER THE CENTER LINE IN THIS SECTION THE ROADWAY EXCEPT AT INTERSECTIONS WITH LEFT TURN LANES.





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2.825	18TH ST.			2.852		F 18TH ST	г		0.03	NB ONLY					
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TOTAL	192		460						1.13	V22-1843	_4.				
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PAVEMENT MARKING LEGEND

L LANE LINE

CS CENTER LINE, DOUBLE, SOLID

CH CHANNELIZING LINE

S STOP LINE

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COLINO ELOCINO

TY TRANSVERSE LINE, (YELLOW), 12' C/C

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OFFICE OF THE CITY ENGINEER CANTON, OHIO
DANIEL J. MOEGLIN, P. E., CITY ENGINEER
2435 30th STREET ME. 47705 (330)489-3381

PAVEMENT MARKINGS FULTON RD. NW PAVING PROJECT

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